

## **EXAMINER'S AMENDMENT**

1-29. (Canceled)

30. (Currently Amended) A computer implemented system that facilitates analyzing newsgroup similarity, comprising:

one or more hardware processors;

memory coupled to the one or more hardware processors;

a data reception component, stored in the memory and executed by the one or more processors, that receives data relating to a plurality of newsgroups and cross-postings between the plurality of newsgroups;

a graphing engine, stored in the memory and executed by the one or more processors, that constructs a weighted graph with a subset of the newsgroups represented as vertices of the graph and cross-postings between two newsgroups of the subset of newsgroups represented as edges between vertices corresponding to the two newsgroups;

a filtering component, stored in the memory and executed by the one or more processors, that excludes particular newsgroups from being represented in the weighted graph so as to facilitate reducing a size of the weighted graph;

a paring component, stored in the memory and executed by the one or more processors, that removes edges of the graph with a weight less than a threshold weight so as to facilitate reducing the size of the graph;

a segmenting component, stored in the memory and executed by the one or more processors, that segments the weighted graph ~~via spectral clustering~~; and

a post-processing component, stored in the memory and executed by the one or more processors, that merges a first cluster of vertices and edges of the weighted graph into a second cluster of vertices and edges of the weighted graph if a sum of weights between the clusters is greater than a threshold.

31. (Previously Presented) The system of claim 30, further comprising a data store for storing:

newsgroup data received by the data reception component;

algorithms utilized for segmenting the weighted graph;

the weighted graph generated by the graphing engine; and

a graph generated by segmentation of the weighted graph *via* the segmenting component.

32. (Previously Presented) The system of claim 30, wherein the post-processing component outputs a modified weighted graph.

33-49. (Canceled)

50. (Previously Presented) The system of claim 30, wherein the vertices of the weighted graph are weighted based at least in part on a number of postings to the corresponding newsgroups and the edges of the weighted graph are weighted based at least in part on a number of cross-postings between the two corresponding newsgroups.

51. (Previously Presented) The system of claim 30, further comprising a search engine configured to use the weighted graph when executing a newsgroup search and providing results from the newsgroups search.

52. (Previously Presented) The system of claim 30, further comprising an e-mail program configured to generate a suggestion that a post be cross-posted to other newsgroups, the other newsgroups identified at least in part by the weighted graph.

53-54. (Canceled)

55. (New) The system of claim 30, wherein the segmenting component segments the weighted graph via spectral clustering.

56. (New) A computer-implemented method for creating a cluster graph comprising the following computer executable steps:

receiving data relating to a plurality of newsgroups and cross-postings between the plurality of newsgroups;

constructing, by a hardware processor, a weighted graph with a subset of the newsgroups represented as vertices of the graph and cross-postings between two newsgroups of the subset of newsgroups represented as edges between vertices corresponding to the two newsgroups;

excluding particular newsgroups from being represented in the weighted graph so as to facilitate reducing a size of the weighted graph;

removing edges of the graph with a weight less than a threshold weight so as to facilitate reducing the size of the graph;

segmenting the weighted graph; and

merging a first cluster of vertices and edges of the weighted graph into a second cluster of vertices and edges of the weighted graph if a sum of weights between the clusters is greater than a threshold.

57. (New) The method of claim 56, further comprising:

storing newsgroup data received by the data reception component, algorithms utilized for segmenting the weighted graph, the weighted graph generated by the graphing engine, and a graph generated by segmentation of the weighted graph *via* the segmenting component.

58. (New) The method of claim 56, wherein the weighted graph comprises a modified weighted graph.

59. (New) The method of claim 56, wherein the vertices of the weighted graph are weighted based at least in part on a number of postings to the corresponding newsgroups and the edges of the weighted graph are weighted based at least in part on a number of cross-postings between the two corresponding newsgroups.

60. (New) The method of claim 56, further comprising:

using the weighted graph, by a search engine, when executing a newsgroup search and providing results from the newsgroups search.

61. (New) The method of claim 56, further comprising:  
generating, by an e-mail program, a suggestion that a post be cross-posted to other newsgroups, the other newsgroups identified at least in part by the weighted graph.

62. (New) The method of claim 56, wherein segmenting the weighted graph comprises segmenting *via* spectral clustering.

63. (New) Computer storage media storing instructions that, when executed by a computing device, cause the computing device to perform acts comprising:

receiving data relating to a plurality of newsgroups and cross-postings between the plurality of newsgroups;

constructing a weighted graph with a subset of the newsgroups represented as vertices of the graph and cross-postings between two newsgroups of the subset of newsgroups represented as edges between vertices corresponding to the two newsgroups;

excluding particular newsgroups from being represented in the weighted graph so as to facilitate reducing a size of the weighted graph;

removing edges of the graph with a weight less than a threshold weight so as to facilitate reducing the size of the graph;

segmenting the weighted graph; and

merging a first cluster of vertices and edges of the weighted graph into a second cluster of vertices and edges of the weighted graph if a sum of weights between the clusters is greater than a threshold.

64. (New) The media of claim 63, wherein the acts further comprise:  
storing newsgroup data received by the data reception component, algorithms utilized for segmenting the weighted graph, the weighted graph generated by the graphing engine, and a graph generated by segmentation of the weighted graph *via* the segmenting component.

65. (New) The media of claim 63, wherein the weighted graph comprises a modified weighted graph.

66. (New) The media of claim 63, wherein the vertices of the weighted graph are weighted based at least in part on a number of postings to the corresponding newsgroups and the edges of the weighted graph are weighted based at least in part on a number of cross-postings between the two corresponding newsgroups.

67. (New) The media of claim 63, wherein the acts further comprise:  
using the weighted graph, by a search engine, when executing a newsgroup search and providing results from the newsgroups search.

68. (New) The media of claim 63, wherein the acts further comprise:

generating, by an e-mail program, a suggestion that a post be cross-posted to other newsgroups, the other newsgroups identified at least in part by the weighted graph.

69. (New) The media of claim 63, wherein segmenting the weighted graph comprises segmenting *via* spectral clustering.